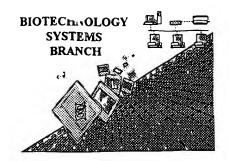
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/903,327	
Source:	OIPE	· · · ·
Date Processed by STIC:	7/24/2001	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/903, 327
ATTN NEW RULES CASES	5: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	h. The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
SVariable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Usc of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220> <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10lnvalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220> <223> section is required when <213> response is Unknown or is Artificial Sequence
11Usc of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12Patcutin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/903,327

DATE: 07/24/2001

TIME: 11:08:21

Does Not Comply

Input Set : A:\es.txt

Output Set: N:\CRF3\07242001\1903327.raw

Corrected Diskette Needed 3 <110> APPLICANT: Nemerow, Glen R.

Li, Erquang

6 <120> TITLE OF INVENTION: BIFUNCTIONAL MOLECULES AND VECTORS COMPLEXED THEREWITH FOR

TARGETED

7 **GENE**

8 DELIVERY

10 <130> FILE REFERENCE: 22908-1228

13 <141> CURRENT FILING DATE: 2001-07-10

liter just show prior served no. 15 <150> PRIOR APPLICATION NUMBER: converted

16 <151> PRIOR FILING DATE: 2000-07-10

18 <160> NUMBER OF SEQ ID NOS: 33

20 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

22	<210>	SEQ ID NO: 1	
23	<211>	LENGTH: 1516	\cap
24	<212>	TYPE: DNA	Q. Z
25	<213>	ORGANISM: Mouse	(/. 0
27	<220>	FEATURE:	
28	<221>	NAME/KEY: CDS	V
29	<222>	LOCATION: (28)(1395	5)
20	1222	OTHER INFORMATION. DAY	7-1 hoarry chain

30 <223> OTHER INFORMATION: DAV-1 heavy chain, penton base monoclonal antibody 32 <400> SEQUENCE: 1

33 cagacactga acacactgac tetaacc atg gga tgg agc tgg atc ttt etc ttc 54 34 Met Gly Trp Ser Trp Ile Phe Leu Phe 35 1 5

37 ctc ctq tca qqa act qca qqc qtc cac tct qaq qtc caq ctt caq caq 102 38 Leu Leu Ser Gly Thr Ala Gly Val His Ser Glu Val Gln Leu Gln Gln 15 20 41 tea gga eet gag etg gtg aaa eet ggg gee tea gtg aag ata tee tge 150 42 Ser Gly Pro Glu Leu Val Lys Pro Gly Ala Ser Val Lys Ile Ser Cys 30 35 198 45 aag get tet gga tae aca tte act gae tae aac atg eac tgg gtg aag 46 Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr Asn Met His Trp Val Lys 45

47 246 49 cag agc cat gga aag agc ctt gag tgg att gga tat att tat cct tac 50 Gln Ser His Gly Lys Ser Leu Glu Trp Ile Gly Tyr Ile Tyr Pro Tyr

65 53 aaa ggt ggt act ggc tac aac cag aag ttc aag agc aag gcc aca ttg 294 54 Lys Gly Gly Thr Gly Tyr Asn Gln Lys Phe Lys Ser Lys Ala Thr Leu

75 80 85 57 aca aca gac agt tee tee aac aca gee tae atg gag ete ege age etg 342 58 Thr Thr Asp Ser Ser Ser Asn Thr Ala Tyr Met Glu Leu Arg Ser Leu

95 100 61 aca tot gat goo tot goa gto tat tac tgt goa aga ggg att got tac 390 RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/09/903,327 TIME: 11:08:21

Input Set : A:\es.txt

Output Set: N:\CRF3\07242001\1903327.raw

		Thr	Ser	Asp	Ala		Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Gly	Ile		Tyr	
	63 65	+ ~ ~	~~~	~~~	~~~	110	a+ a	at a	2.at	a+ a		~~~	~~~	222	200	120	000	438
														aaa Lys				430
	67	тъ	СТА	GIII	125	1111	ьец	val	1111	130	ser	нта	нта	гуѕ	135	1111	PIO	
		000	+ 0+	at a		000	at a	~~~	aat		+ a+	a a t	~~~	a aa		224	+	106
														caa				486
	71	PIO	ser	140	TAT	PIO	Leu	Ата	145	СТУ	ser	Ата	нта	Gln 150	THE	ASII	ser	
		2 + c	~+~		a+ ~	~~-	+~~	a+ a		224	~~~	+-+	++-		~~~	~~~	~+~	E 2.4
														cct Pro				534
	75	Met	155	1111	ьeu	СТА	Cys	160	Val	гур	СТУ	TAT	165	PIO	GIU	PIO	val	•
		202		200	+ ~ ~	220	+ a+		+ 00	ata	+ 00	200		at a	030	200	++0	500
														gtg				582
			val	1111	пр	ASII	175	СТУ	ser	Leu	ser	180	GIY	Val	нта	TIII		
		170	aat	at a	a+ a	a 2 a		~~~	ata	+ > 0	2.at		200	200	+ 00	a+~	185	620
														agc				630
		PIO	Ald	vai	Leu	190	ser	ASP	Leu	тут		Leu	ser	Ser	ser		THE	
	83	at a	000	+ 0 0	200		+~~	000	200	~~~	195	at a	200	+~~	224	200	~~~	670
		-			-				_			-		tgc		-	-	678
	87	Val	PIO	ser	205	THE	ттр	PIO	ser		THE	vaı	THE	Cys		Val	Ата	
		a 2 a	~~~	~~~		200	200	226	~+ ~	210	226		a++	~+~	215	. ~ ~	~-+	726
														gtg Val				726
	91	птъ	PIO	220	261	ser	1111	пåг	225	ASP	гуѕ	гуу	ше	230	PIO	AIG	ASP	_
E>		+~+	aat		224	aa+	+~~	a+a		202	~+ a		~ ~~		+~~	+ a+	at a	(365) 17 14
E/														Val				(765)774
	95	Суз	235	Cys	цуз	FIU	Cys	240	СуЗ	1111	vaı	PIO	245	vai	261	ser	vaı	
		ttc		ttc	ccc	cca	aan		aan	αat	ata	ctc		att	act	ata	act	822
														Ile				022
		250	110	1110	110	110	255	110	цуз	пор	Vul	260	1111	110	1111	Deu	265	
			aad	r atc	. aco	tat		ato	r orta	σασ	ato		aac	gat	gat		gag	870
																	Glu	070
	103			, , , ,		270		, , , ,	. ,		275			,		280		
			cao	rtto	ago			αta	gat	gat			r ata	cac	. aca		cag	918
																	Gln	310
	107		. 011		285	_		, , ,		290		. 010			295		. 0111	
			саа	ccc			r gag	cao	r t.t.c			act	tto	. cac			agt	966
																	. Ser	300
	111			300			-		305					310				
			ctt			a t.o	cac	cad			cto	aat	. aad			r t.t.c	aaa	1014
																	Lys	
	115		315					320		1			325	_				
					aac	agt	gca			cat	. acc	ccc			aaa	acc	atc	1062
																	· Ile	
		330	_				335					340			_, _, _		345	
				acc	aaa	gan			aaa	get	сса			tac	aco	att	cca	1110
																	Pro	
	123		1 ~	-	1 ~	350	_		., ,		355			- 1 -		360		
			ccc	aaq	qaq			qcc	aaa	gat			agt	cta	acc		atg	1158
																	Met	
				1 -					1 -	F						· <u>1</u> –		

RAW SEQUENCE LISTING DATE: 07/24/2001 PATENT APPLICATION: US/09/903,327 TIME: 11:08:21

Input Set : A:\es.txt

Output Set: N:\CRF3\07242001\1903327.raw

365 370 375	
	1206
Ile Thr Asp Phe Phe Pro Glu Asp Ile Thr Val Glu Trp Gln Trp Asn	
380 . 385 . 390	
ggg cag cca gcg gag aac tac aag aac act cag ccc atc atg gac aca	1254
Gly Gln Pro Ala Glu Asn Tyr Lys Asn Thr Gln Pro Ile Met Asp Thr	
395 400 405	
gat ggc tot tac ttc gtc tac agc aag ctc aat gtg cag aag agc aac	1302
Asp Gly Ser Tyr Phe Val Tyr Ser Lys Leu Asn Val Gln Lys Ser Asn	
410 415 420 425	
	1350
Trp Glu Ala Gly Asn Thr Phe Ile Cys Ser Val Leu His Glu Gly Leu	
430 435 440	
	1395
His Asn His His Thr Glu Lys Ser Leu Ser His Ser Pro Gly Lys	
445 450 455	
	1455
	1515
	1516
<210> SEQ ID NO: 12 <211> LENGTH: 510	
<211> DENGIH. 310 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	
<213> ORGANISM: Artificial Sequence	
<220> FEATURE:	
<223> OTHER INFORMATION: Fusion protein with N-terminal portion of D	AV-1 heavy chain
<223> OTHER INFORMATION: Fusion protein with N-terminal portion of DA and IGF-1 mature peptide	AV-1 heavy chain
<223> OTHER INFORMATION: Fusion protein with N-terminal portion of DA and IGF-1 mature peptide <400> SEQUENCE: 12	AV-1 heavy chain
and IGF-1 mature peptide	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1 5 10 15 Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys 20 25 30	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1 5 10 15 Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys 20 25 30 Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1 5 10 15 Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys 20 25 30 Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe 35 40 45	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1 5 10 15 Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys 20 25 30 Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe 35 40 45 Thr Asp Tyr Asn Met His Trp Val Lys Gln Ser His Gly Lys Ser Leu	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1 5 10 15 Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys 20 25 30 Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe 35 40 45 Thr Asp Tyr Asn Met His Trp Val Lys Gln Ser His Gly Lys Ser Leu 50 55 60	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1 5 10 15 Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys 20 25 30 Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe 35 40 45 Thr Asp Tyr Asn Met His Trp Val Lys Gln Ser His Gly Lys Ser Leu 50 55 60 Glu Trp Ile Gly Tyr Ile Tyr Pro Tyr Lys Gly Gly Thr Gly Tyr Asn	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1 5 10 15 Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys 20 25 30 Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe 35 40 45 Thr Asp Tyr Asn Met His Trp Val Lys Gln Ser His Gly Lys Ser Leu 50 55 60 Glu Trp Ile Gly Tyr Ile Tyr Pro Tyr Lys Gly Gly Thr Gly Tyr Asn 65 70 75 80	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1 5 10 15 Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys 20 25 30 Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe 35 40 45 Thr Asp Tyr Asn Met His Trp Val Lys Gln Ser His Gly Lys Ser Leu 50 55 60 Glu Trp Ile Gly Tyr Ile Tyr Pro Tyr Lys Gly Gly Thr Gly Tyr Asn 65 70 75 80 Gln Lys Phe Lys Ser Lys Ala Thr Leu Thr Thr Asp Ser Ser Ser Asn	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Eu Ser Gly Thr Ala Gly 10	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1	AV-1 heavy chain
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and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1	AV-1 heavy chain
and IGF-1 mature peptide <400> SEQUENCE: 12 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1	AV-1 heavy chain

RAW SEQUENCE LISTING DATE: 07/24/2001 PATENT APPLICATION: US/09/903,327 TIME: 11:08:21

Input Set : A:\es.txt

Output Set: N:\CRF3\07242001\I903327.raw

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767 Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Asp
               180
                                   185
769 Leu Tyr Thr Leu Ser Ser Val Thr Val Pro Ser Ser Thr Trp Pro
                               200
771 Ser Glu Thr Val Thr Cys Asn Val Ala His Pro Ala Ser Ser Thr Lys
                           215
773 Val Asp Lys Lys Ile Val Pro Arg Asp Cys Gly Cys Lys Pro Cys Ile
                       230
                                           235
775 Cys Thr Val Pro Glu Val Ser Ser Val Phe Ile Phe Pro Pro Lys Pro
                   245
                                       250
777 Lys Asp Val Leu Thr Ile Thr Leu Thr Pro Lys Val Thr Cys Val Val
               260
                                   265
779 Val Asp Ile Ser Lys Asp Asp Pro Glu Val Gln Phe Ser Trp Phe Val
           275
                               280
781 Asp Asp Val Glu Val His Thr Ala Gln Thr Gln Pro Arg Glu Glu Gln
                           295
783 Phe Asn Ser Thr Phe Arg Ser Val Ser Glu Leu Pro Ile Met His Gln
                       310
                                           315
785 Asp Trp Leu Asn Gly Lys Glu Phe Lys Cys Arg Val Asn Ser Ala Ala
                  325
                                       330
787 Phe Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Arg Pro
               340
                                   345
789 Lys Ala Pro Gln Val Tyr Thr Ile Pro Pro Pro Lys Glu Gln Met Ala
                               360
791 Lys Asp Lys Val Ser Leu Thr Cys Met Ile Thr Asp Phe Phe Pro Glu
792 · 370
                           375
793 Asp Ile Thr Val Glu Trp Gln Trp Asn Gly Gln Pro Ala Glu Asn Tyr
                       390
                                            395
795 Lys Asn Thr Gln Pro Ile Met Asp Thr Asp Gly Ser Tyr Phe Val Tyr
                   405
                                       410
797 Ser Lys Leu Asn Val Gln Lys Ser Asn Trp Glu Ala Gly Asn Thr Phe
               420
                                   425
799 Ile Cys Ser Val Leu His Glu Phe Gly Pro Glu Thr Leu Cys Gly Ala
    435
                               440
801 Glu Leu Val Asp Ala Leu Gln Phe Val Cys Gly Asp Arg Gly Phe Tyr
                           455
                                               460
803 Phe Asn Lys Pro Thr Gly Tyr Gly Ser Ser Arg Arg Ala Pro Gln
                       470
                                           475
805 Thr Gly Ile Val Asp Glu Cys Cys Phe Arg Ser Cys Asp Leu Arg Arg
                                       490
                  485
                                                     Sio C present number
807 Leu Glu Met Tyr Cys Ala Pro Leu Lys Pro Ala Lys Ser Ala
               500
                                   505
1156 <210> SEQ ID NO: 30
1157 <211> LENGTH: 96
                                                  next roger
1158 <212> TYPE: DNA
1159 <213> ORGANISM: Artificial Sequence
1161 <220> FEATURE:
1162 <223> OTHER INFORMATION: PCR sense primer for subcloning EGF into DAV-1/EGF
         fusion construct.
```

RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/903,327

TIME: 11:08:21

Input Set : A:\es.txt

Output Set: N:\CRF3\07242001\1903327.raw

Journal evan see n Evan Juman Sheet

1165 <400> SEQUENCE: 30

E--> 1166 gaattcaata gtgactctga atgtcccctg tcccacgatg ggtactgcct ccatgatggt 60 -

60 ~

1167

1168 gtgtgcatgt atattgaagc attggacaag tatgca

1170 <210> SEQ ID NO: 31

1171 <211> LENGTH: 98

1172 <212> TYPE: DNA

1173 <213> ORGANISM: Artificial Sequence

1175 <220> FEATURE:

1176 <223> OTHER INFORMATION: PCR antisense primer for subcloning EGF into DAV-1/EGF

fusion construct.

1179 <400> SEQUENCE: 31

E--> 1180 gaattetage geagtteeea ceaetteagg teteggtaet gacategete ceegatgtag 🥱 60

1182 ccaacaacac agttgcatgc atacttgtcc aatgcttc

98

<210> 5
<211> 1314
<212> DNA
<213> Mouse

coding region begins will base at location]

<220>
<221> CDS
<222> (0) ... (1314)
<222> Portion of DAV-1 heavy chain used for fusion protein
 bifunctional antibody

<400> 5
atg gga tgg agc tgg atc ttt ctc ttc ctc ctg tca gga act gca ggc
Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly
1
5
10
15

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/903,327

DATE: 07/24/2001 TIME: 11:08:22

Input Set : A:\es.txt

Output Set: N:\CRF3\07242001\I903327.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

L:93 M:254 E: No. of Bases conflict, LENGTH:Input:765 Counted:774 SEQ:1

L:350 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:5, CDS LOCATION: (0)...

(1314)

L:808 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12 L:1166 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:30 L:1180 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:31